PATENT COOPERATION TREATY

To: EONEYWELL INTERNATIONAL INC. ACTIFICATION OF TRANSMITTAL OF ACTIFICATION OF THE INTERNATIONAL ECHTRA CENTRA	From the INTERNATIONAL SEARCHING AUTHORITY	RECEIVED PCT
EDINSYWELL INTERNATIONAL INC. ARTH. Roiriis, David CENTRA C	E 1711	DEPARTMENT - C
ALTIOL COLUMBS ROAD P.O. BOX 2245 MONTHISTON, New JEZSEY 07960 UNITED STATES OF AMERICA CENTRA PER - 7 2005 (PCT Rule 44.1) Date of mailing (day/month/year) Cay/month/year) Cay/month/year) Cay/month/year) Cay/month/year) 13 / 09 / 2004 POP Rule 44.1) Date of mailing (day/month/year) Cay/month/year) 13 / 09 / 2004 POP Rule 44.1) The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been exabitated and are transmitted herewith. Filing of amendments and attainment under Article 18: The applicant is enabled, the so wishes, to amend the claims of the international Application (see Rule 46): When? The time limit for lifing such amendments is normally a months from the date of transmitted of the International Search Report, however, for more deballs, see the notes on the accompanying sheet. When? Divertly to the international Search Report, thowever, for more deballs, see the notes on the accompanying sheet. Pring of the deball of international search report will be established and that the destands under 1211 Centers 20, Switzerland, Featching No.141–227 140.14.35 For more deballed instructions, see the roots on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the destands under 1211 Centers 20, Switzerland, Featching No.141–227 140.14.35 For more deballed instructions, see the roots on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the destands under 1211 Centers 20, Switzerland, Featching No.141–227 140.14.35 For more deballed instructions, see the roots on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the destands under 1211 Centers 20, Switzerland, Featching No.141–227 140.14.35 For more deballed instructions, see the roots on the accompanying sheet. The applicant is not been app	HOMEOURELL THERRONATIONAL THE MS F	NOTIFICATION OF TRANSMITTAL OF
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The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. Reminders Shortly after the expiration of 18 months from the priority date, the International application will be published by the International Bureau. If the applicant wishes to avoid or postgone publication, a notice of withdrawal of the international application, or of the priority date, must reach the International Bureau as provided in Rules 90ths.1 and 90ths.3, respectively, before the completion of the technical preparatione for international publication. The applicant may extend comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau all lead a copy of such comments to all designated Offices unless an International preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filled if the applicant wishes to postpone the entry thio the national phase until 30 months. From the priority date, but only in respect of some designated Offices, the time limit of 30 months from the priority date, perform the precibed acts for entry into the national phase until 30 months. See the Ann		
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	NL-2280 HV Rijswijk	Antonio Teixeira

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filling of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

in these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international physication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 15 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the international Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 45.2).

Where a demand for international preliminary examination has been as filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as field.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerats. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amandments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended, it must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filled:
- the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: Clares 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims): "Claims 1 to 5 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by emended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and inclinating any impact that such amendments might have on the description and the drawings (which cannot be amanded under Article 19(1)).

The statement will be published with the international application and the amended claims.

if must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended, it must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted; the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 52.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

H0002240-	agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, Item 5 below.
nternational a		International filing date (day/month/yea	(Earliest) Priority Date (day/month/year)
CT/US200	4/029655	13/09/2004	16/09/2003
pplicant			
	.		
ONEYWELL	INTERNATIONAL	INC.	
This internation according to A	onal Search Report has be Article 18. A copy is being	en prepared by this International Searching ransmitted to the International Sureau.	Authority and is transmitted to the applicant
This internatio	nal Search Report consist	s of a total of 5 sheets.	
X	It is also accompanied b	y a copy of each prior art document cited in	n this report
1. Basis of t			
a. With n langua	egard to the language, the age in which it was filed, un	e international search was carried out on the pless otherwise indicated under this item.	e basis of the international application in the
	The International this Authority (Ru	search was carried out on the basis of a trule $23.1(b)$).	anslation of the international application furnished to
b. 🗌	With regard to any nucle	olide and/or amino acid sequence disclo	osed in the international application, see Box No. I.
	Certain claims were tou	ind unsearchable (See Box II).	•
ı	Unity of invention is lac	king (see Box III).	
. With regard	to the title,		
区	the text is approved as su	* **	
Ш	the text has been establis	hed by this Authority to read as follows:	•
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With regard	to the abstract,	•	
=	the text is approved as suf		•
X	the text has been establish may, within one month from	ad, according to Rule 38.2(b), by this Auth n the date of malling of this international se	ority as it appears in Box No. IV. The applicant arch report, submit comments to this Authority.
With regard	to the drawings,		
a. the figure	e of the drawings to be pu	blished with the abstract is Figure No. $\underline{}$	
[E suggested by the	¥	
Ţ	_	Aulthority, because the applicant failed to s	•
[Authority, because this figure better characters	cterizes the invention.
b. n	one of the figures is to be	Oublished with the abstract.	

International application No.

INTERNATIONAL SEARCH REPORT

PCT/US2004/029655

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A laser nozzle (100) for use in a laser powder fusion (LPF) welling process provides longer service life and ease of maintenance. Eliminating the use of laser nozzle inserts, the laser nozzle uses an inner tip (140) that is less subject to damage from the welding process. The laser beam travels down an open central passage (104) to exit out the inner tip (140) in focused alignment with a conical powder flow stream ending in a point generally coincident with the laser beam. The powder supply travels through a passage (170) that is generally coaxial to the central laser passage. A circumscribing passage (196) for inert shielding gas or the like is coincidentally coaxial with both the laser powder flow channel and the central laser channel. Coolant is circulated through a main body portion of the nozzle in order to keep the entire assembly cool. Both the laser and the flow of powder may be adjusted according to operating preferences. A porous shielding cover (210) prevents ejecta and other materials from entering into the shielding gas flow channel. The entire assembly is easily constructed from readily available materials and is easily disassembled for cleaning. Reassembly is also easily achieved in order to enable rapid refurbishment and reconstitution of an optimal LPF welding nozzle.

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International Application No	
PCT/US2004/029655	

		PCT/US	2004/029655
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	to International Patent Classification (IPC) or to both national class	fication and IPC	
	s SEARCHED locumentation searched (classification system followed by classific	alion symbols)	
IPC 7	B23K		
Documenta	ation searched other than minimum documentation to the extent that	d such documents are included in the fie	kts searched
	sata pasa consulted during the International search (name of data iternal, PAJ, WPI Data	base and, where practical, search leaves	used)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the	elevant passages	Relevant to claim No.
X	DE 100 35 622 A (PRECITEC KG) 7 February 2002 (2002-02-07)	•	1-3
A Y	the whole document		5-9 4
A	EP 0 294 324 A (WEIDMUELLER C A 7 December 1988 (1988-12-07)		1-3,5-8
Y	column 4, line 7 - line 36; figu		4
X	US 5 321 228 A (UELZE ANDREAS E 14 June 1994 (1994-06-14)	T AL)	1,2
A	the whole document		5-7
X	GB 2 227 964 A (GEN ELECTRIC) 15 August 1990 (1990-08-15) the whole document		1,2
		-/- -	
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X Furt	ner documents are listed in the continuation of box C.	X Patent family members are list	ed in annex.
"A" docume	regories of cited documents; and defining the general state of the art which is not ered to be of particular relevance	"T" later document published after the or priority date and not in conflict or cited to understand the principle of invention	with the application but
බ්ඩාල් ර	document but published on or after the International late Int which may throw doubts on priority claim(s) or	"X" document of particular relevance; if cannot be considered novel or can involve an inventive step when the	mot be considered to
which in electron of docume	is cited to establish the publication date of another nor other special reason (as: specified) ent referring to an oral disclosure, use, exhibition or	"Y" document of particular relevance; to cannot be considered to involve a document is combined with one of ments, such combination being of	ne claimed invention in inventive step when the more other such docu-
	neans Introduction to the international filing date but International filing date but International filing date but	"8" document member of the same pat	
	actual completion of the international search	Date of mailing of the international	search report
19	9 January 2005	27/01/2005	
Name and n	naling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NI 2220 HV Rijswijk Tel. (+31-70) 340-2040, Tx. \$1 651 epp nl, Fax: (+31-70) 340-3018	Aran, D	·

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